

1600

RAW SEQUENCE LISTING

DATE: 01/15/2002

PATENT APPLICATION: US/09/597,796B

TIME: 12:32:10

Input Set : A:\-90-5.app

Output Set: N:\CRF3\01152002\I597796B.raw

Does Not Comply
Corrected Diskette Needed

PP. 3, 6-8

3 <110> APPLICANT: Skeiky, Yasir
 4 Reed, Steven
 5 Alderson, Mark
 6 Corixa Corporation
 8 <120> TITLE OF INVENTION: Fusion Proteins of Mycobacterium Tuberculosis
 10 <130> FILE REFERENCE: 014058-009050US
 12 <140> CURRENT APPLICATION NUMBER: US 09/597,796B
 13 <141> CURRENT FILING DATE: 2001-06-20
 15 <150> PRIOR APPLICATION NUMBER: US 09/056,556
 16 <151> PRIOR FILING DATE: 1998-04-07
 18 <150> PRIOR APPLICATION NUMBER: US 09/223,040
 19 <151> PRIOR FILING DATE: 1998-12-30
 21 <150> PRIOR APPLICATION NUMBER: WO PCT/US99/07717
 22 <151> PRIOR FILING DATE: 1999-04-07
 24 <150> PRIOR APPLICATION NUMBER: US 09/287,849
 25 <151> PRIOR FILING DATE: 1999-04-07
 27 <150> PRIOR APPLICATION NUMBER: US 60/158,338
 28 <151> PRIOR FILING DATE: 1999-10-07
 30 <150> PRIOR APPLICATION NUMBER: US 60/158,425
 31 <151> PRIOR FILING DATE: 1999-10-07
 33 <160> NUMBER OF SEQ ID NOS: 30
 35 <170> SOFTWARE: PatentIn Ver. 2.1
 37 <210> SEQ ID NO: 1
 38 <211> LENGTH: 588
 39 <212> TYPE: DNA
 40 <213> ORGANISM: Mycobacterium tuberculosis
 42 <220> FEATURE:
 43 <223> OTHER INFORMATION: Ra35, N-terminus of MTB32A (TbRa35FL)
 45 <220> FEATURE:
 46 <221> NAME/KEY: CDS
 47 <222> LOCATION: (1)..(588)
 48 <223> OTHER INFORMATION: Ra35
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 52 tccgcgatgg tcgcccaagt ggggccacag gtggtcaaca tcaacaccaa actgggctac 120
 53 aacaacgccg tgggcgcggg gaccggcatc gtcatcgatc ccaacgggtg cgtgctgacc 180
 54 aacaaccacg tgatcgcggg cgccaccgac atcaatgcgt tcagcgctcg ctccggccaa 240
 55 acctacggcg tcgatgtggt cgggtatgac cgcaaccagg atgtcgcggt gctgcagctg 300
 56 cgcggtgccg gtggcctacc atcggcgggc atcgggtggc gcgtcgcggt tggtagagccc 360
 57 gtcgtcgcca tgggcaacag cgggtggcag ggcggaacgc cccgtgcggt gcctggcagg 420
 58 gtggtcgcgc tcggccaaac cgtgcaggcg tcggattcgc tgaccgggtc cgaagagaca 480
 59 ttgaacgggt tgatccagtt cgatgcgcgc atccagcccg gtgattcggg cgggcccgctc 540
 60 gtcaacggcc taggacaggt ggtcggtatg aacacggccg cgtcctag 588
 63 <210> SEQ ID NO: 2
 64 <211> LENGTH: 195
 65 <212> TYPE: PRT
 66 <213> ORGANISM: Mycobacterium tuberculosis

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67 <223> OTHER INFORMATION: Ra35, N-terminus of MTB32A (TbRa35FL)

70 <400> SEQUENCE: 2

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72 1 5 10 15

73 Pro Leu Asp Pro Ser Ala Met Val Ala Gln Val Gly Pro Gln Val Val

74 20 25 30

75 Asn Ile Asn Thr Lys Leu Gly Tyr Asn Asn Ala Val Gly Ala Gly Thr

76 35 40 45

77 Gly Ile Val Ile Asp Pro Asn Gly Val Val Leu Thr Asn Asn His Val

78 50 55 60

79 Ile Ala Gly Ala Thr Asp Ile Asn Ala Phe Ser Val Gly Ser Gly Gln

80 65 70 75 80

81 Thr Tyr Gly Val Asp Val Val Gly Tyr Asp Arg Thr Gln Asp Val Ala

82 85 90 95

83 Val Leu Gln Leu Arg Gly Ala Gly Gly Leu Pro Ser Ala Ala Ile Gly

84 100 105 110

85 Gly Gly Val Ala Val Gly Glu Pro Val Val Ala Met Gly Asn Ser Gly

86 115 120 125

87 Gly Gln Gly Gly Thr Pro Arg Ala Val Pro Gly Arg Val Val Ala Leu

88 130 135 140

89 Gly Gln Thr Val Gln Ala Ser Asp Ser Leu Thr Gly Ala Glu Glu Thr

90 145 150 155 160

91 Leu Asn Gly Leu Ile Gln Phe Asp Ala Ala Ile Gln Pro Gly Asp Ser

92 165 170 175

93 Gly Gly Pro Val Val Asn Gly Leu Gly Gln Val Val Gly Met Asn Thr

94 180 185 190

95 Ala Ala Ser

96 195

99 <210> SEQ ID NO: 3

100 <211> LENGTH: 1872

101 <212> TYPE: DNA

102 <213> ORGANISM: Mycobacterium tuberculosis

104 <220> FEATURE:

105 <223> OTHER INFORMATION: MTB32A (TbRa35FL) cDNA

107 <400> SEQUENCE: 3

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109 tagctacccc gacacaggag gttacgggat gagcaattcg cgccgcccgt cactcagggtg 120

110 gtcattggtg ctgagcgtgc tggctgccgt cgggctgggc ctggccacgg cgccggccca 180

111 ggcgggcccc cgggccttgt cgcaggaccg gtctgccgac ttccccgcgc tgcccctcga 240

112 cccgtccgcg atggtcgccc aagtggcgcc acagggtggtc aacatcaaca ccaaactggg 300

113 ctacaacaac gccgtgggcg ccgggaccgg catcgtcacg gatcccaacg gtgtcgtgct 360

114 gaccaacaac cacgtgatcg cgggcgccac cgacatcaat gcgttcagcg tcggctccgg 420

115 ccaaacttac ggcgtcgatg tggctcgggtg tgaccgcacc caggatgtcg cgggtgctgca 480

116 gctgcgcggt gccgtggccc tgccgtcggc ggcgatcggt ggcggcgctc cggttggtga 540

117 gcccgtcgtc gcgatgggca acagcgggtg gcaggggcga acgccccgtg cggtgccctg 600

118 cagggtggtc gcgctcggcc aaaccgtgca ggcgtcggat tcgctgaccg gtgccgaaga 660

119 gacattgaac gggttgatcc agttcgatgc cgcaatccag cccggtgatt cggggcgggc 720

120 cgtcgtcaac ggcctaggac aggtggtcgg tatgaacacg gccgcgtccg ataacttcca 780

121 gctgtccacg ggtgggcagg gattcgccat tccgatcggg caggcgtatg cgatcgcggg 840

p.3

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122 ccaaattccga tcgggtgggg ggtcaccac cgttcataatc gggcctaccg ccttcctcgg 900
 123 cttgggtggt gtcgacaaca acggcaacgg cgcacgagtc caacgcgtgg tcggaagcgc 960
 124 tccggcggca agtctcggca tctccaccgg cgacgtgata accgcggtcg acggcgctcc 1020
 125 gatcaactcg gccaccgcga tggcggacgc gcttaacggg catcatcccg gtgacgtcat 1080
 126 ctcggtgaac tggcaaacca agtcggggcg cagcgtatac gggaaacgtga cattggccga 1140
 127 gggacccccg gcttgatttg tcgcgatac caccgcggcg ccggccaatt ggattggcgc 1200
 128 cagccgtgat tgccgcgtga gccccgagt tccgtotccc gtgcgcgtgg cattgtggaa 1260
 129 gcaatgaacg aggcagaaca cagcgttgag caccctcccg tgcagggcag ttacgtcgaa 1320
 130 ggcggtgtgg tcgagcatcc ggatgccaag gacttcggca gcgcgcgcgc cctgccgcgc 1380
 131 gatccgacct ggtttaagca cgcgctcttc tacgaggtgc tggctccggc gttcttcgac 1440
 W--> 132 gccagcgcgg acggttccgm cgactctgct ggactcatcg atcgctcga ctacctgcag 1500
 133 tggcttgga tcgactgcat ctggtgcgc cgttcctacg actcaccgct gcgcgacggc 1560
 134 ggttacgaca ttcgcgactt ctacaagggt ctgcccgaat tcggcaccgt cgacgatttc 1620
 135 gtcgccctgg tcgacaccgc tcaccggcga ggtatccgca tcataccga cctggtgatg 1680
 136 aatcacacct cggagtcgca cccctggttt caggagtcgc gccgcgaccc agacggaccg 1740
 137 tacggtgact attacgtgtg gagcgacacc agcgcgcgt acaccgacgc ccggtatcgc 1800
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 143 <211> LENGTH: 355
 144 <212> TYPE: PRT
 145 <213> ORGANISM: Mycobacterium tuberculosis
 147 <220> FEATURE:
 148 <223> OTHER INFORMATION: MTB32A (TbRa35FL) protein
 150 <400> SEQUENCE: 4
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 152 1 5 10 15
 153 Val Leu Ala Ala Val Gly Leu Gly Leu Ala Thr Ala Pro Ala Gln Ala
 154 20 25 30
 155 Ala Pro Pro Ala Leu Ser Gln Asp Arg Phe Ala Asp Phe Pro Ala Leu
 156 35 40 45
 157 Pro Leu Asp Pro Ser Ala Met Val Ala Gln Val Ala Pro Gln Val Val
 158 50 55 60
 159 Asn Ile Asn Thr Lys Leu Gly Tyr Asn Asn Ala Val Gly Ala Gly Thr
 160 65 70 75 80
 161 Gly Ile Val Ile Asp Pro Asn Gly Val Val Leu Thr Asn Asn His Val
 162 85 90 95
 163 Ile Ala Gly Ala Thr Asp Ile Asn Ala Phe Ser Val Gly Ser Gly Gln
 164 100 105 110
 165 Thr Tyr Gly Val Asp Val Val Gly Tyr Asp Arg Thr Gln Asp Val Ala
 166 115 120 125
 167 Val Leu Gln Leu Arg Gly Ala Gly Gly Leu Pro Ser Ala Ala Ile Gly
 168 130 135 140
 169 Gly Gly Val Ala Val Gly Glu Pro Val Val Ala Met Gly Asn Ser Gly
 170 145 150 155 160
 171 Gly Gln Gly Gly Thr Pro Arg Ala Val Pro Gly Arg Val Val Ala Leu
 172 165 170 175
 173 Gly Gln Thr Val Gln Ala Ser Asp Ser Leu Thr Gly Ala Glu Glu Thr
 174 180 185 190

see
 item 9
 on
 Error
 summary
 sheet

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175 Leu Asn Gly Leu Ile Gln Phe Asp Ala Ala Ile Gln Pro Gly Asp Ser
176          195          200          205
177 Gly Gly Pro Val Val Asn Gly Leu Gly Gln Val Val Gly Met Asn Thr
178      210          215          220
179 Ala Ala Ser Asp Asn Phe Gln Leu Ser Gln Gly Gly Gln Gly Phe Ala
180 225          230          235          240
181 Ile Pro Ile Gly Gln Ala Met Ala Ile Ala Gly Gln Ile Arg Ser Gly
182          245          250          255
183 Gly Gly Ser Pro Thr Val His Ile Gly Pro Thr Ala Phe Leu Gly Leu
184          260          265          270
185 Gly Val Val Asp Asn Asn Gly Asn Gly Ala Arg Val Gln Arg Val Val
186      275          280          285
187 Gly Ser Ala Pro Ala Ala Ser Leu Gly Ile Ser Thr Gly Asp Val Ile
188      290          295          300
189 Thr Ala Val Asp Gly Ala Pro Ile Asn Ser Ala Thr Ala Met Ala Asp
190 305          310          315          320
191 Ala Leu Asn Gly His His Pro Gly Asp Val Ile Ser Val Asn Trp Gln
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193 Thr Lys Ser Gly Gly Thr Arg Thr Gly Asn Val Thr Leu Ala Glu Gly
194          340          345          350
195 Pro Pro Ala
196      355
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200 <211> LENGTH: 447
201 <212> TYPE: DNA
202 <213> ORGANISM: Mycobacterium tuberculosis
204 <220> FEATURE:
205 <223> OTHER INFORMATION: MTBRa12 C-terminus of MTB32A (Ra35FL)
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210 caccgttcat atcgggccta ccgccttcc cggcttgggt gttgtcgaca acaacggcaa 180
211 cggcgacaga gtccaacgcg tggtcgggag cgctccggcg gcaagtctcg gcatctccac 240
212 cggcgacgtg atcaccgcgg tcgacggcgc tccgatcaac tcggccaccg cgatggcgga 300
213 cgcgcttaac gggcatcatc ccggtgacgt catctcgggt aactggcaaa ccaagtcggg 360
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215 ataccacccg ccggccggcc aattgga 447
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219 <211> LENGTH: 132
220 <212> TYPE: PRT
221 <213> ORGANISM: Mycobacterium tuberculosis
223 <220> FEATURE:
224 <223> OTHER INFORMATION: MTBRa12 C-terminus of MTB32A (Ra35FL)
226 <400> SEQUENCE: 6
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228 1          5          10          15
229 Ala Ile Pro Ile Gly Gln Ala Met Ala Ile Ala Gly Gln Ile Arg Ser
230          20          25          30
231 Gly Gly Gly Ser Pro Thr Val His Ile Gly Pro Thr Ala Phe Leu Gly

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232          35          40          45
233 Leu Gly Val Val Asp Asn Asn Gly Asn Gly Ala Arg Val Gln Arg Val
234          50          55          60
235 Val Gly Ser Ala Pro Ala Ala Ser Leu Gly Ile Ser Thr Gly Asp Val
236 65          70          75          80
237 Ile Thr Ala Val Asp Gly Ala Pro Ile Asn Ser Ala Thr Ala Met Ala
238          85          90          95
239 Asp Ala Leu Asn Gly His His Pro Gly Asp Val Ile Ser Val Asn Trp
240          100          105          110
241 Gln Thr Lys Ser Gly Gly Thr Arg Thr Gly Asn Val Thr Leu Ala Glu
242          115          120          125
243 Gly Pro Pro Ala
244          130
247 <210> SEQ ID NO: 7
248 <211> LENGTH: 3058
249 <212> TYPE: DNA
250 <213> ORGANISM: Mycobacterium tuberculosis
252 <220> FEATURE:
253 <223> OTHER INFORMATION: MTB39 (TbH9) cDNA full-length
255 <400> SEQUENCE: 7
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257 ggcataccca gagatgttgg cggcgggcggc tgacaccctg cagagcatcg gtgctaccac 120
258 tgtggctagc aatgccgctg cggcgggccc gacgactggg gtggtgcccc ccgctgccga 180
259 tgaggtgtcg gcgctgactg cggcgccactt cgccgcacat gcggcgatgt atcagtccgt 240
260 gagcgctcgg gctgctgcga ttcattgacca gttcgtggcc acccttgcca gcagcgccag 300
261 ctcgatatcg gccactgaag tcgccaatgc ggcggcgggc agctaagcca ggaacagtcg 360
262 gcacgagaaa ccacgagaaa tagggacacg taatggtgga tttcggggcg ttaccaccgg 420
263 agatcaactc cgcgaggatg tacgcccggc cgggttcggc ctcgctggtg gccgcggtc 480
264 agatgtggga cagcgtggcg agtgacctgt tttcgcccgc gtcggcggtt cagtcggtgg 540
265 tctggggtct gacggtgggg tcgtggatag gttcgtcggc gggctctgat gtggcgccgg 600
266 cctcgccgta tgtggcgtgg atgagcgtea ccgcggggca ggccgagctg accgcccggc 660
267 aggtccgggt tgcgtcgggc gcctacgaga cggcgatatg gctgacgggt cccccggcg 720
268 tgatcgccga gaaccgtgct gaactgatga ttctgatagc gaccaacctc ttggggcaaa 780
269 acaccccggc gatcgcggtc aacgaggccg aatacggcga gatgtgggcc caagacgccg 840
270 ccgcgatggt tggctacgcc gcggcgacgg cgacggcgac ggcgacgttg ctgccgttcg 900
271 aggaggcgcc ggagatgacc agcgcggttg ggctcctcga gcaggccgcc gcggtcgagg 960
272 aggcctccga caccgcccgc gcgaaccagt tgatgaacaa tgtgccccag gcgctgcaac 1020
273 agctggccca gccacgcag gccaccacgc cttcttccaa gctgggtggc ctgtggaaga 1080
274 cggctctgcc gcacggtcg ccgatcagca acatggtgtc gatggccaac aaccacatgt 1140
275 cgatgaccaa ctcggtgtg tcgatgacca acaccttag ctcgatgttg aagggtttg 1200
276 ctccggcggc ggccgcccag gccgtgcaaa ccgcggcgca aaacggggtc cgggcgatga 1260
277 gctcgctggg cagctcgctg ggttcttcgg gtctggcgcg tggggtggcc gccaaacttg 1320
278 gtcggcgggc ctcggtcggt tcgttgctcg tgccgcaggc ctggggccgc gccaaaccag 1380
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280 ggcccgggca gatgctgggc gggctgccgc tggggcagat gggcgccagg gccggtggtg 1500
281 ggctcagtg tgtgctgcgt gttccgccc gacctatgt gatgccgat tctccggcg 1560
282 ccggtctagga gagggggcgc agactgtcgt tatttgacca gtgatcggcg gtctcggtgt 1620
283 ttccgcggcc ggctatgaca acagtcaatg tgcattgaaa gttacaggta ttaggtccag 1680
284 gttcaacaag gagacaggca acatggcctc acgttttatg acgatccgc acgcgatgcg 1740

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097597,796B 6

<210> 10

<211> 596

<212> PRT

<213> Artificial Sequence

<223> Description of Artificial Sequence: fusion
protein TbH9-Ra35 (MTB59F)

<400> 10

> <220> Insert this
mandatory
numeric identifier
whenever <221>, <222>,
or <223> is
shown
↓

The types of errors shown exist throughout
the Sequence Listing. Please check subsequent
sequences for similar errors.

<210> 11
 <211> 2287
 <212> DNA
 <213> Mycobacterium tuberculosis
 <213> Artificial Sequence
 <220>
 <223> Description of Artificial Sequence: fusion
 protein Ra12-TbH9-Ra35 (MTB72F)

<213> can only have one response:

Artificial Sequence
or Unknown or
 Scientific name
 (Genus/species)

<210> 25
 <211> 851
 <212> DNA
 <213> Mycobacterium tuberculosis

<220>
 <223> MTB39 (TbH9) cDNA

<400> 25
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 ccgggttgct gcggcgccct acgagacggc gtatgggctg acggtgcccc cgccggtgat 120
 cgccgagaac cgtgctgaac tgatgattct gatagcgacc aacctcttgg ggcaaaacac 180
 cccggcgatc gcggtcaacg aggccgaata cggcgagatg tgggcccag acgccgccgc 240
 gatgtttggc tacgccgcgg cgacggcgac ggcgacggcg acgttgctgc cgttcgagga 300
 ggcgccggag atgaccagcg cgggtgggct cctcgagcag gccgcgcgg tcgaggaggc 360
 ctccgacacc gccgcggcga accagttgat gaacaatgtg cccagggcg tgaaacagtt 420
 ggcccagccc acgcagggca ccacgccttc ttccaagctg ggtggcctgt ggaagacggt 480
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 ggcgccctcg gtacggtatg gtcaccggga tggcggaata tatgcaagt ~~ctggtcggcg~~ 780
 gaacggtggt ccggcgtaag gtttaccccc gttttctgga tgcggtgaac ttcgtcaacg 840
 gaaacagtta c 851

→ see
 item 9
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IMPORTANT
 →

Use of n and/or Xaa has been detected in the Sequence Listing.
 Review the Sequence Listing to insure a corresponding
 explanation is presented in the <220> to <223> fields of
 each sequence using n or Xaa.

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/597,796B

DATE: 01/15/2002

TIME: 12:32:11

Input Set : A:\-90-5.app

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L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date
 L:132 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:3
 L:132 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:3
 L:132 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
 L:138 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:3
 L:138 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:3
 L:138 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
 L:421 M:258 W: Mandatory Feature missing, <220> FEATURE: ✓
 L:508 M:280 W: Numeric Identifier already exists, Organism not replaced. ✓
 L:535 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
 L:572 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 ✓
 L:580 M:258 W: Mandatory Feature missing, <220> FEATURE: ✓
 L:788 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17
 L:798 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 ✓
 L:804 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17
 L:805 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17
 L:1082 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:25
 L:1082 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:25
 L:1082 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25
 L:1126 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:26
 L:1126 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:26
 L:1126 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26
 L:1181 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:27